A'Z OIPE

RAW SEQUENCE LISTING DATE: 10/19/2001 PATENT APPLICATION: US/09/971,708 TIME: 10:28:50

Input Set : A:\16U 102 R1.ST25.txt

Output Set: N:\CRF3\10192001\I971708.raw

	3	<110)> A1	PPLI	CANT	or:	iGene	e Te	chno.	logi	es, :	Inc								
		<120											and I	oly	pept:	ide				
	7	<130)> F	ILE E	REFE	RENCE	E: 00	GT 16	5U 10	02 R	1				_					
c>		<140										/971	708	W						
C>													′ () '		P	_{вестн} В. п			
		<160														L	= \V			
		<170								n 3.0	0						0 (2	u II	=R	
		<210							-											-
		<211																į		
		<212																0.		
		<213				Homo	o sar	oien										Λ,		
		<220					•	_										V		
		<221				CDS														
		<222) (3	3196)											
		<400					,		-											
							cc a	gaaca	accto	g cci	tgcg	ctgc	cqc	cacti	tct o	cttta	aaggg	a	60	
		gagg																	112	
	26	, ,,	•	•												Ğlu				•
	27								1	_	_	_	5		_					
		ctt	ttq	caa	ttt	ggt	ttc	ttc	ttq	cct	ctq	ctg	aca	gcg	tgg	cca	ggc		160'	
		Leu	_						_		_	_		-						
		10				-	15					20			-		25			
	33	gac	tgc	agt	cac	gtc	tcc	aac	aac	caa	gtt	gtg	ttg	ctt	gat	aca	aca		208	
		Āsp	_	_		-														
	35	-	_			30					35				_	40				
	37	act	gta	ctg	gga	gag	cta	gga	tgg	aaa	aca	tat	cca	tta	aat	ggg	tgg		256	
		Thr	-	-																
	39				45			_		50					55					
	41	gat	gcc	atc	act	gaa	atg	gat	gaa	cat	aat	agg	ccc	att	cac	aca	tac		304	
	42	Asp	Ala	Ile	Thr	Glu	Met	Asp	Glu	His	Asn	Arg	Pro	Ile	His	Thr	\mathtt{Tyr}			
	43			60					65					70						
	45	cag	gta	tgt	aat	gta	atg	gaa	cca	aac	caa	aac	aac.	tgg	ctt	cgt	aca		352	
	46	Gln	Val	Cyş	Asn	Val	Met	Glu	Pro	Asn	Gln	Asn	Asn	Trp	Leu	Arg	Thr			
	47		75	,				80					85							
	49	aac	tgg	atc	tcc	cgt	gat	gca	gct	cag	aaa	att	tat	gtg	gaa	atg	aaa		400	
	50	Asn	Trp	Ile	Ser	Arg	Asp	Ala	Ala	Gln	Lys	Ile	Tyr	Val	Glu	Met	Lys			
	51	90					95					100					105			
	53	ttc	aca	cta	agg	gat	tgt	aac	agc	atc	cca	tgg	gtc	ttg	ggg	act	tgc		448	,
	54	Phe																		
	55					110					115					120				
	57	aaa	gaa	aca	ttt	aat	ctg	ttt	tat	atg	gaa	tca	gat	gag	tcc	cac	gga		496	
	58	Lys	Glu	Thr	Phe	Asn	Leu	Phe	Tyr	Met	Glu	Ser	Asp	Glu	Ser	His	Gly			
	59				125					130					135					
																	gct	,	544	
		Ile	Lys	Phe	Lys	Pro	Asn	Gln	Tyr	Thr	Lys	Ile	Asp		Ile	Ala	Ala			
	63			140					145					150						
	65	gat	gag	agt	ttt	acc	cag	atg	gat	ttg	ggt	gat	cgc	atc	ctc	aaa	ctc		592	

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66 67	Asp	Glu 155	Ser	Phe	Thr	Gln	Met 160	Asp	Leu	Gly	Asp	Arg 165	Ile	Leu	Lys	Leu	
	aac		gaa	att	cat	gag		aaa	cct	ata	gaa		aaa	ααa	+++	tat	640
				Ile													• • •
	170	1111	Olu	110	**** 9	175	vui	011	110	110	180	**** 9	2,5	011	1	185	
		aat	+++	caa	~~~		~~~	~~~	+ ~ ~	a++		a+a	~++	+ 00	ata		688
																	000
	ьeu	нта	Pne	Gln		TIE	GIY	нта	Cys	195	Ата	ьeu	Val	ser	200	AIG	
75					190												726
	_			aag		-				_	_		_	_	_		736
	Val	Phe	Tyr	Lys	Lys	Cys	Pro	Phe		Val	Arg	Asn	Leu		Met	Phe	
79				205					210					215			
				att													784
82	Pro	Asp		Ile	Pro	Arg	Val	_	Ser	Ser	Ser	Leu		Glu	Val	Arg	
83			220					225					230				
85	ggt	tct	tgt	gtg	aag	agt	gct	gaa	gag	cgt	gac	act	cct	aaa	ctg	tat	832
86	Gly	Ser	Cys	Val	Lys	Ser	Ala	Glu	Glu	Arg	Asp	Thr	Pro	Lys	Leu	Tyr	
87		235					240					245					
89	tgt	gga	gct	gat	gga	gat	tgg	ctg	gtt	cct	ctt	gga	agg	tgc	atc	tgc	880
	_		_	Asp		-		_	-								
	250	-		-	•	255	•				260	-		-		265	
		aca	σσα	tat	σaa		att	σασ	aat	tct	tac	cat	act	tac	aσa	cca	928
	_			Tyr	_	_					_		-	_	_		
95			1	-1-	270				1	275	-1-			-1-	280		
	σσα	ttc	tat	aaa		+++	act	aaa	aac		aaa	tat	tct	aaa		cct	976
				Lys	_		_					_			-		3,0
99	GLY	THE	- Y -	285	пта	1110	niu	O L Y	290	1111	цуз	Cys	DCI	295	CJB	110	
						+	+.			30+	+ + + +	· ~+~	. + ~+		+~+	W > 2	1024
			_	•				_								gaa	1024
		י חדב			LIII	туг	. Met			1 1111	. 561	. vaı			Cys	Glu	
103			300					305					310				1070
																acc	1072
			_	Pne	e Arg	ALA		_	s Asp	Pro	Pro			ATa	Cys	Thr	
107		315					320					325					
					-					_					_	aca	1120
	_		Pro	Ser	Ala		-	Asn	ı Val	. Val			ı Il∈	e Asn	Glu	Thr	
	330					335					340					345	
																aaa	1168
114	l Ala	Leu	ı Ile	e Leu	ı Glu	ı Trp	Ser	Pro	Pro	Ser	: Asp	Thi	: Gly	Gly	' Arg	Lys	
115	5				350)				355	5				360	١	
117	7 gat	cto	c aca	ı tac	agt	: gta	ato	: tgt	: aag	aaa	ı tgt	ggc	: tta	gac	acc	agc	1216
118	Asp	Leu	ı Thi	туг	Ser	Val	. Ile	Cys	Lys	Lys	Cys	: Gly	, Leu	ı Asp	Thr	Ser	
119	•			365	5				370)				375	5		
121	cag	r tgt	gag	gac	: tgt	ggt	: gga	gga	cto	cgc	tto	ato	cca	aga	cat	aca	1264
122	Glr	Суя	Glu	ı Asp	Cys	Gly	gly	Gly	Leu	Arg	y Phe	: Ile	Pro	Arg	His	Thr	
123		_	380		_	_	_	385		_			390				
		cto	gato	aac	aat	tco	gtq	rata	gta	ctt	gad	ttt:	gto	, tct	cac	gtg	1312
																Val	
127	_	395					400					405					
				ttt	gaa	ata			ato	aat	. aaa			: dad	r tta	agt	1360
																Ser	
		- 4 -									1						



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13	1 410					415					420					425	
13	3 ttt	tct	ccc	aag	cca	ttc	aca	gct	att	aca	gtg	acc	acg	gat	caa	gat	1408
	4 Phe																
13				-	430					435					440		
13	7 gca	cct	tcc	ctg	ata	ggt	gtg	gta	agg	aag	gac	tgg	gca	tcc	caa	aat	1456
	8 Ala																
13				445		-			450	_	_			455			
14	1 agc	att	qcc	cta	tca	tgg	caa	gca	cct	gct	ttt	tcc	aat	gga	gcc	att	1504
	2 Ser																
14			460			-		465					470	_			
14	5 ctg	gac	tac	gag	atc	aag	tac	tat	gag	aaa	gaa	cat	gag	cag	ctg	acc	1552
	6 Leu																
14		475	-			_	480	_		_		485					
	9 tac	tct	tcc	aca	agg	tcc	aaa	qcc	ccc	agt	gtc	atc	atc	aca	ggt	ctt	1600
	0 Tyr																
	1 490				_	495	_				500					505	
	3 aag	cca	qcc	acc	aaa	tat	qta	ttt	cac	atc	cga	gtg	aga	act	gcg	aca	1648
	4 Lys																
15	_				510	_				515	_		_		520		
	- 7 gga	tac	aσt	aac	tac	agt	caq	aaa	ttt	qaa	ttt	gaa	aca	qqa	gat	qaa	1696
	8 Gly																
15	_	-1-		525	-1-			-	530					535	-		
	1 act	tct	σac	ato	σca	αca	σaa	caa	qqa	caq	att	ctc	qtq	ata	qcc	acc	1744
	2 Thr																
16			540					545	4				550				
	- 5 gcc	act	att	aac	σσα	ttc	act	ctc	ctc	qtc	atc	ctc	act	tta	ttc	ttc	1792
	6 Ala																
16		555		4			560					565					
	9 ttg	atc	act	aaa	aσa	tat	caq	taa	tac	ata	aaa	qcc	aaq	atg	aag	tca	1840
	0 Leu																
	1 570					575		-	•		580		-		-	585	
	3 gaa		aaq	aσa	aqa	aac	cac	tta	cag	aat	qqq	cat	ttg	cgc	ttc	ccg	1888
	4 Glu																
17			-1-	5	590					595	_			_	600		
	7 7 gga	att	aaa	act		att	gat	cca	qat	aca	tat	gaa	qac	cca	tcc	cta	1936
	8 Gly																
17	_		-1-	605	-1-				610				-	615			
	- 1 gca	atc	cat		ttt	σca	aaσ	σασ	att	gat	ccc	tca	aga	att	cqt	att	1984
	2 Ala																
18	_		620					625		-					_		
	- 5 gag	aσa		att	aaa	σca				qqa					qqq	cqt	2032
	6 Glu																
18		635			- 4		640			-		645	-		-	-	,
	9 ttg		aca	cca	gaa	aaa		gag	atc	cca	gtt	gcc	att	aaa	act	ttg	2080
	0 Leu																
	1 650				4	655		_			660					665	
	3 aaa		qqc	cac	atq		caa	caa	aqa	aqa	gat	ttt	cta	aga	gaa	gct	2128
	4 Lys																
19	_		- 4		670	-	,		_	675	•			_	680		
_																	

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197	agt	atc	atg	ggc	cag	ttt	gac	cat	cca	aac	atc	att	cgc	cta	gaa	ggg	2176
198	Ser	Ile	Met	Gly	Gln	Phe	Asp	His	Pro	Asn	Ile	Ile	Arg	Leu	Glu	Gly	
199				685					690					695			
201	gtt	gtc	acc	aaa	aga	tcc	ttc	ccg	gcc	att	ggg	gtg	gag	gcg	ttt	tgc	2224
202	Val	Val	Thr	Lys	Arg	Ser	Phe	Pro	Ala	Ile	Gly	Val	Glu	Ala	Phe	Cys	
203			700				•	705					710				
205	ccc	agc	ttc	ctg	agg	gca	ggg	ttt	tta	aat	agc	atc	cag	gcc	ccg	cat	2272
206	Pro	Ser	Phe	Leu	Arg	Ala	Gly	Phe	Leu	Asn	Ser	Ile	Gln	Ala	Pro	His	
207		715					720					725					
209	cca	gtg	cca	ggg	gga	gga	tct	ttg	ccc	ccc	agg	att	cct	gct	ggc	aga	2320
210	Pro	Val	Pro	Gly	Gly	Gly	Ser	Leu	Pro	Pro	Arg	Ile	Pro	Āla	Gly	Arg	
211	730					735					740				_	745	
213	cca	gta	atg	att	gtg	gtg	gaa	tat	atg	gag	aat	gga	tcc	cta	gac	tcc	2368
							Glu										
215					750					755					760		
217	ttt	ttg	cgg	aag	cat	gat	ggc	cac	ttc	aca	gtc	atc	cag	ttg	gtc	gga	2416
							Gly										
219			_	765		_	_		770					775		_	
221	atg	ctc	cga	ggc	att	gca	tca	ggc	atg	aag	tat	ctt	tct	gat	atg	ggt	2464
	_		_			_	Ser		_	_				-	_		
223			780	_				785		_	-		790	_		_	
225	tat	gtt	cat	cga	gac	cta	gcg	gct	cgg	aat	ata	ctg	gtc	aat	agc	aac	2512
							Ala										
227	-	795		_	_		800		-			805					
229	tta	gta	tgc	aaa	gtt	tct	gat	ttt	ggt	ctc	tcc	aga	gtg	ctg	gaa	gat	2560
							Asp										
	810		_	_		815	_		_		820	-				825	
233	gat	cca	gaa	gct	gct	tat	aca	aca	act	ggt	gga	aaa	atc	ccc	ata	agg	2608
234	Asp	Pro	Glu	Ala	Ala	Tyr	Thr	Thr	Thr	Gly	Gly	Lys	Ile	Pro	Ile	Arg	
235					830					835	_	_			840	-	
237	tgg	aca	gcc	cca	gaa	gcc	atc	gcc	tac	aga	aaa	ttc	tcc	tca	gca	agc	2656
							Ile										
239				845					850		_			855			
241	gat	gca	tgg	agc	tat	ggc	att	gtc	atg	tgg	gag	gtc	atg	tcc	tat	gga	2704
							Ile										
243	_		860		_	_		865		-			870		_	_	
245	gag	aga	cct	tat	tgg	gaa	atg	tct	aac	caa	gat	gtc	att	ctg	tcc	att	2752
							Met										
247		875			_		880				_	885					
249	gaa	gaa	ggg	tac	aga	ctt	cca	gct	ccc	atg	ggc	tgt	cca	gca	tct	cta	2800
250	Glu	Glu	Gly	Tyr	Arg	Leu	Pro	Āla	Pro	Met	Gly	Cys	Pro	Āla	Ser	Leu	
251	890					895					900	_			•	905	
253	cac	cag	ctg	atg	ctc	cac	tgc	tgg	cag	aag	gag	aga	aat	cac	aga	cca	2848
254	His	Gln	Leu	Met	Leu	His	Cys	Trp	Gln	Lys	Glu	Arg	Asn	His	Arg	Pro	
255					910		•	_		915		-			920		
257	aaa	ttt	act	gac	att	gtc	agc	ttc	ctt	gac	aaa	ctg	atc	cga	aat	ccc	2896
							Ser										
259				925					930	_	•			935			
261	agt	gcc	ctt	cac	acc	ctg	gtg	gag	gac	atc	ctt	gta	atg	cca	gag	tcc	2944



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262 cct ggt gaa gtt ccg gaa tat cct ttg ttt gtc aca gtt ggt ggc tgg 266 Pro Gly Glu Val Pro Glu Tyr Pro Leu Phe Val Thr Val Gly Asp Trp 267 955 960 965 269 cta gat tct ata aag atg ggg caa tac aag aat aac ttc gtg gca gca 270 Leu Asp Ser Ile Lys Met Gly Gln Tyr Lys Asan Asn Phe Val Ala Ala 271 970 975 980 985 273 ggg ttt aca aca ttt gac ctg att tca aga atg act gat gac att 274 Gly Phe Thr Thr Phe Asp Leu Ile Ser Arg Met Ser Ile Asp Asp Ile 275 990 995 1000 276 aga aga att gga 277 aga aga att gga 278 atg act cac atg aga cga ata gtc 279 1005 1010 1015 281 agc agc ata cag 282 act tta cgt tta cac atg atg cac ata cag gag 283 agg gga ttt cat 283 1020 1025 1030 285 aag gga ttt cat 286 Lys Gly Phe His 287 1035 289 cagcattct aaaatgaacg attcctct tactactct tcttctgatt ctccaaacat 289 cagcattctcaaa actgcagtct tctgttcaga ctataggcac acacctatg tttaggct 280 cagcacttct acaaatgaacg attgctcacta atcgtfctg aataacctgc aactaaaacc 291 cactcacaa actgcagtct tctgttcaga ctataggcac acacctatg tttaggct 292 ggcttcctta gtgatgtatg tagatgtga tggtaaatac tcagcagtgg tggtaatat 293 ttatatacag ctctattggt aggttcacg gacttaacct aaaaaaaatt atcagggg 294 ggcttcctta gtgatgtatg tagatgtga tggtagatga gaaagaacta gttgaactt 295 ctggcccact gcagattatt gctacgcaat ggtaaatac tcagcagtgg tgtaatt 296 ggcttcctta gtgatgtatg tagatgtga tggtagatga gaaagaacta gttgaactt 297 tgtataagcc gtatatggg agggttat taggtagatga gaaagaacta gttgaactt 298 ttatattcag ctctattggt tgtattatta ctttatttt taatacttta actggtgtg 299 ggcttcctta gtgatgtaga tagggttcac aactgaacg aatgtttcat ttttgataa 290 gagtatgac tatggtagaata acaaaaaaa aaaaaaaaa aaaaaaaaaa	262 263	Ser	Ala	Leu 940	His	Thr	Leu	Val	Glu 945	Asp	Ile	Leu	Val	Met 950	Pro	Glu	Ser	
3040 270 284 284 285 286	266		Gly					Tyr					Thr					2992
273 ggg ttt aca aca ttt gac ctg att tca aga atg agc att gat gac att 3088 274 Gly Phe Thr Thr Phe Asp Leu Ile Ser Arg Met Ser Ile Asp Asp Ile 1000 275	269		gat					ggg					aac					3040
275 290 995 1000 3133 3286 328	273	ggg					gac	_			-	atg	-		-	-	att	3088
278 Arg Arg Ile Gly Val Ile Leu Ile Gly His Gln Arg Arg Ile Val 279	275	_				990	_				995				_	100		
281 agc agc ata cag	278	-	-		Gly	Va]				e Gly	y H:		-		-		-	3133
283		agc	agc	ata			: tta	a cgt	tta			tg a	tg ca	ac at			gag	3178
286 Lys Gly Phe His Val 287 1035 289 cagcatttet aaaatgaacg atatcetote tactacetee tettetgate etcaaacat 3286 291 cacttcacaa actgcagtet tetgttcaga ctataggeae acacettatg tttatgette 3346 293 caaccaggat tttaaaatca tgetacataa atcegttetg aataacetge aactaaaace 3406 295 ctggeceaet geagattatt getacegeaat ggtaaataac teageatga tgtgtaattt 3466 297 tgtataagee gtatatggga agtgtteaeg gacttaacet aaaaaaatta atecagtggg 3526 299 ggetteetta gtgatgtatg tagaggtgta tgtgtagatg gaagaacta gttgacett 3586 301 ettecatgtt ttgtgateaa gtagetteea aactgacaga aatgtteat ttttagataa 3646 303 ttatatteag etcattggt tgtattatta etttatttt taatacetta actgttggtg 3706 305 cetgatattg ttagaattat ttgeagaaat gaceagtgat atcatgtaat gaatttttgt 3766 307 gaggtatgae tatggtgaga agggggtat tagggaggg gaaaaaaata etgtgttat 3826 309 aaatetaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa		Ser	Ser	Ile			Leu	ı Arg	J Leι			et M	et H:	is I			Glu	
289 cagcattet aaaatgaacg atatectete tactactete tettetgatt etceaacat 3286 291 cactteacaa actgeagtet tetgtteaga etataggeac acacettatg tttatgette 3346 293 caaceaggat tetaaaatea tgetacataa atcegtetg aataacetge aactaaaace 3406 295 etggeceact geagattatt getacgeaat ggtaaataac teagcatgga tgtgtaatte 3466 297 tgtataagee gtatatggga agtgtteacg gacttaacet aaaaaaattt atceaggtgg 3526 299 ggetteetta gtgatgtatg tagagtgtga tggtagatga gaaagaacta gttgacette 3586 301 etteatgtt tegtgateaa gtagetteea aactgacaga aatgtteeat tettagataa 3646 303 ttatateag etetattggt tgtattatta etttattett taatacetta actgttggtg 3706 305 eetgatattg ttagaattat tegeagaaat gaceaggat atcatgtaat gaattettgt 3766 307 gaggtatgae tatggtgaga agggggttat tagggaggga gaaaaaaata etgtgtgta 3826 309 aaateetaaaa aaaaaaaaaa aaaaaaaaa 3886 311 aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 3886 311 aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 3886 312 aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 3886 314 <210> SEQ ID NO: 2 2 315 <211> LENGTH: 1036 316 <212> TYPE: PRT 317 <213> ORGANISM: Homo sapien 319 <400> SEQUENCE: 2 321 Met Gly Gly Cys Glu Val Arg Glu Phe Leu Leu Gln Phe Gly Phe Phe 322 1 5 10 15 325 Leu Pro Leu Leu Thr Ala Trp Pro Gly Asp Cys Ser His Val Ser Asn 326 20 25 30 329 Asn Gln Val Val Leu Leu Asp Thr Thr Thr Val Leu Gly Glu Leu Gly 330 35 40 45 333 Trp Lys Thr Tyr Pro Leu Asn Gly Trp Asp Ala Ile Thr Glu Met Asp 34 50 55 60 337 Glu His Asn Arg Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Glu 338 65 70 75 80 341 Pro Asn Gln Asn Asn Trp Leu Arg Thr Asn Trp Ile Ser Arg Asp Ala		_				-	_	a aag	gtaco	caca	agca	acct	gtg 1	tttt	gtgc	ct		3226
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326	322	1	_	_	_	5		_			10		·		_	15		
329 Asn Gln Val Val Leu Leu Asp Thr Thr Thr Val Leu Gly Glu Leu Gly 330		Leu	Pro	Leu		Thr	Ala	Trp	Pro	_	Asp	Cys	Ser	His		Ser	Asn	
330 35 40 45 333 Trp Lys Thr Tyr Pro Leu Asn Gly Trp Asp Ala Ile Thr Glu Met Asp 334 50 55 60 337 Glu His Asn Arg Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Glu 338 65 70 75 80 341 Pro Asn Gln Asn Asn Trp Leu Arg Thr Asn Trp Ile Ser Arg Asp Ala		7	C1 n	17 - 1		T 011	T 011	7 ~~	mh ~	~ ~	Шhъ	17-1	T 011	C1		T 011	C1	
334 50 55 60 337 Glu His Asn Arg Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Glu 338 65 70 75 80 341 Pro Asn Gln Asn Asn Trp Leu Arg Thr Asn Trp Ile Ser Arg Asp Ala	330			35					40					45				
338 65 70 75 80 341 Pro Asn Gln Asn Asn Trp Leu Arg Thr Asn Trp Ile Ser Arg Asp Ala	334	_	50		_			55	_	_	_		60				_	
341 Pro Asn Gln Asn Asn Trp Leu Arg Thr Asn Trp Ile Ser Arg Asp Ala			His	Asn	Arg	Pro		His	Thr	Tyr	Gln		Cys	Asn	Val	Met		
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3.2	341 1 342	Pro	Asn	Gln	Asn	Asn 85	Trp	Leu	Arg	Thr	Asn 90	Trp	Ile	Ser	Arg	Asp 95	Ala	

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/971,708

DATE: 10/19/2001 TIME: 10:28:52

Input Set : A:\16U 102 R1.ST25.txt

Output Set: N:\CRF3\10192001\I971708.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:1010 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

L:1012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6